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Dräger medical
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Field Service Procedure

Passive Scavenger Assembly Kit
Anesthesia

Revision -
1/23/04
SP00309

PASSIVE SCAVENGER KIT

1 GENERAL INFORMATION

The Passive Scavenger Assembly is an exhaust collector manifold. It is intended for use with non-recirculating heating/ventilating/air conditioning systems (also called Exhaust Systems).

This Service Procedure provides installation information for the Passive Scavenger Assembly Kit.

2 KIT CONTENTS

PART NUMBER	DESCRIPTION	QTY
4118605	Passive Scavenger	1
M32972	Transfer Hose, Passive Scavenger	1
M29430	Adapter, 30 mm	1
4118641	Label, Consult Instructions	1
4118692-001	Supplement, Operator's Instruction Manual	1
1101312	Adapter, 19 mm	1
9995230	Hose, Corrugated w/ 19mm bushing, 30 mm LG	1
SP00309	Service Procedure	1

3 MOUNTING THE PASSIVE SCAVENGER

The passive scavenger mounts on a GCX by means of a GCX rail interface.

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1. Slide the passive scavenger adapter plate (1) into the lower GCX rail access (2). Refer to Fig. 1, Fig. 2.

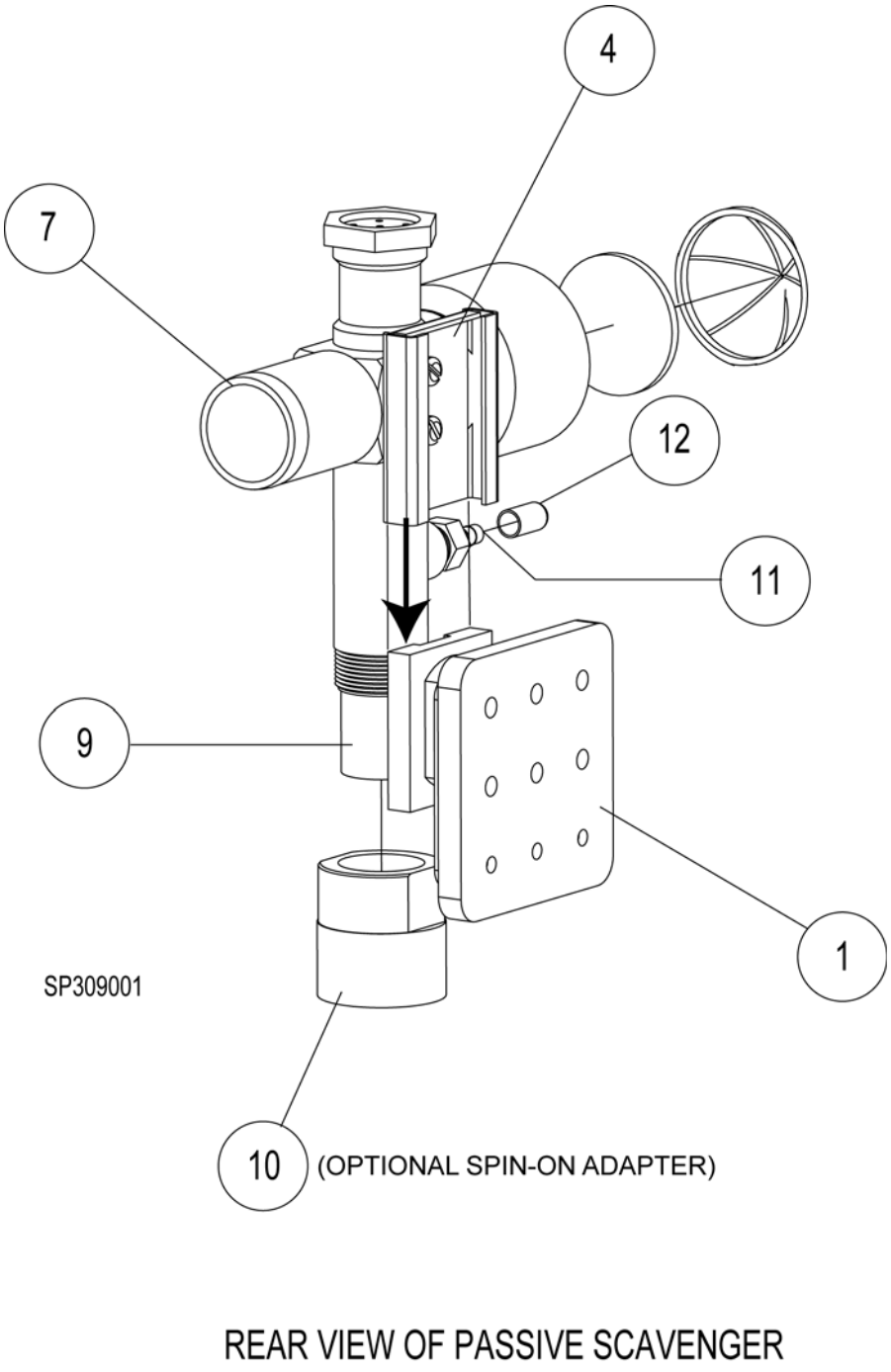

Fig. 1 Rear View of Passive Scavenger Assembly with Adapter Plate Detached

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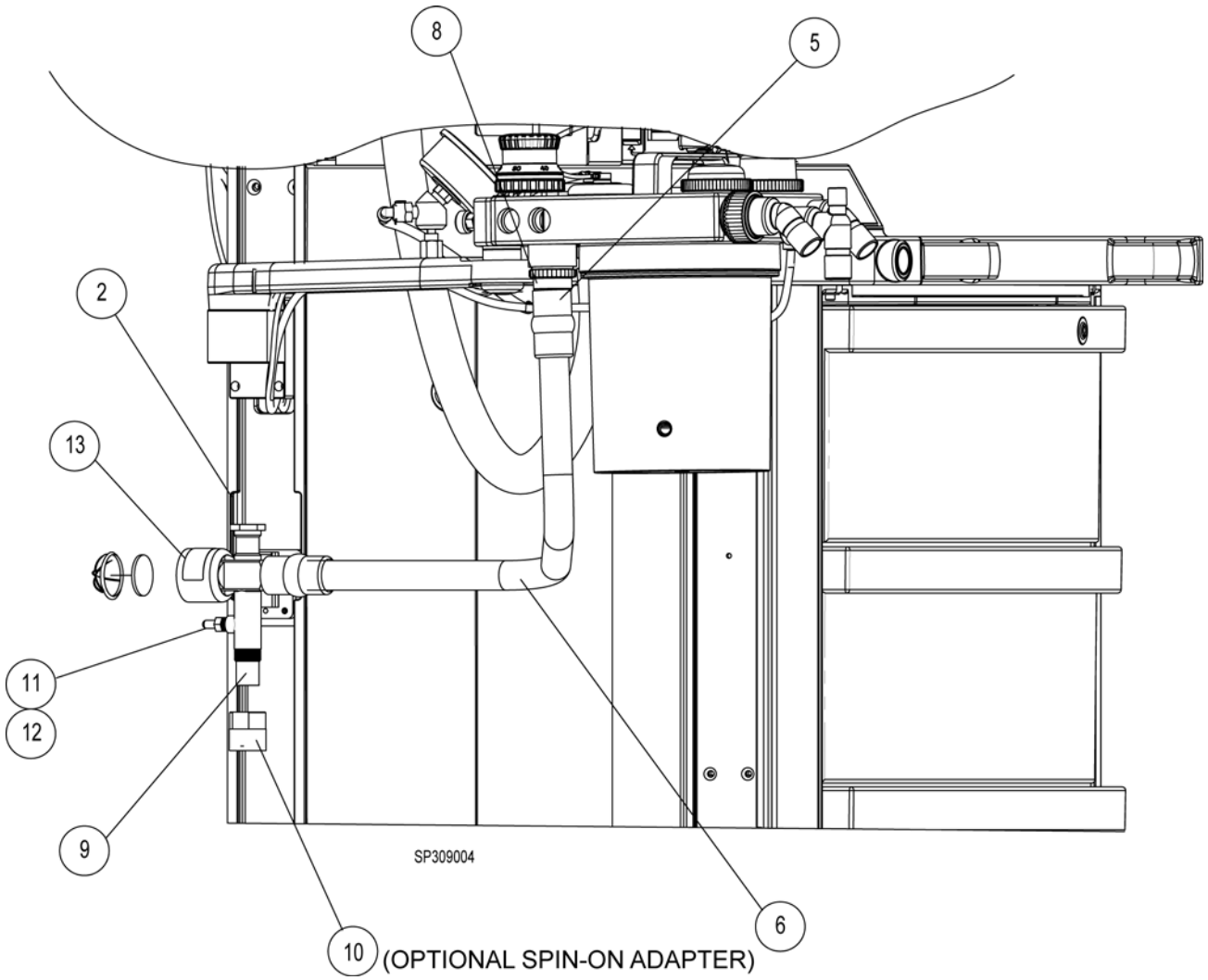

Fig. 2 Passive Scavenger Mounting on Fabius GS or Fabius Tiro (Trolley Mount)

2. Set the Scavenger mount at a desired height below the COSY Breathing System mounting arm and secure into place by tightening the two 6-32 set screws (3). Refer to Fig. 3 for set screw location.

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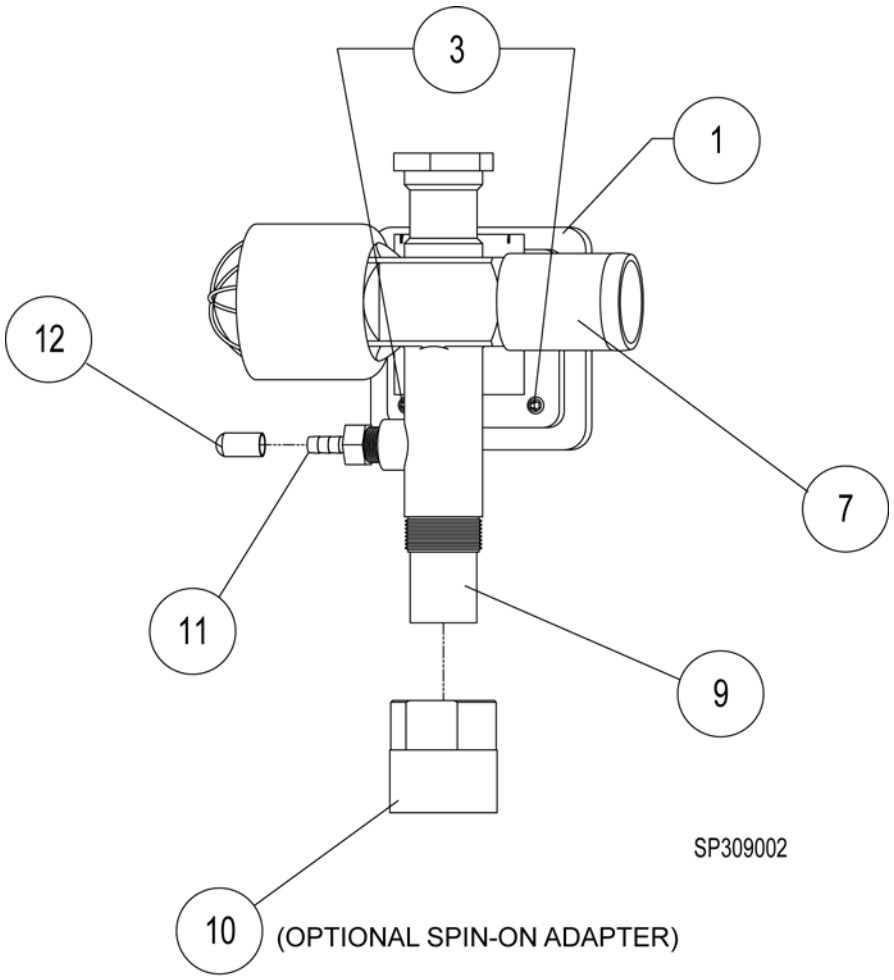

Fig. 3 Front View of Passive Scavenger Assembly with Adapter Plate Attached

CAUTION:
The passive scavenger mounting interface must be installed in the correct orientation or passive scavenger will not function.

3. Slide the passive scavenger mounting interface (4) onto the adapter plate (1) until it is seated. See Fig. 1 for proper orientation of the passive scavenger mounting interface with adapter plate.
4. Attach the 30 mm female conical adapter (5) to the scavenger transfer hose (6). Refer to Fig. 4.

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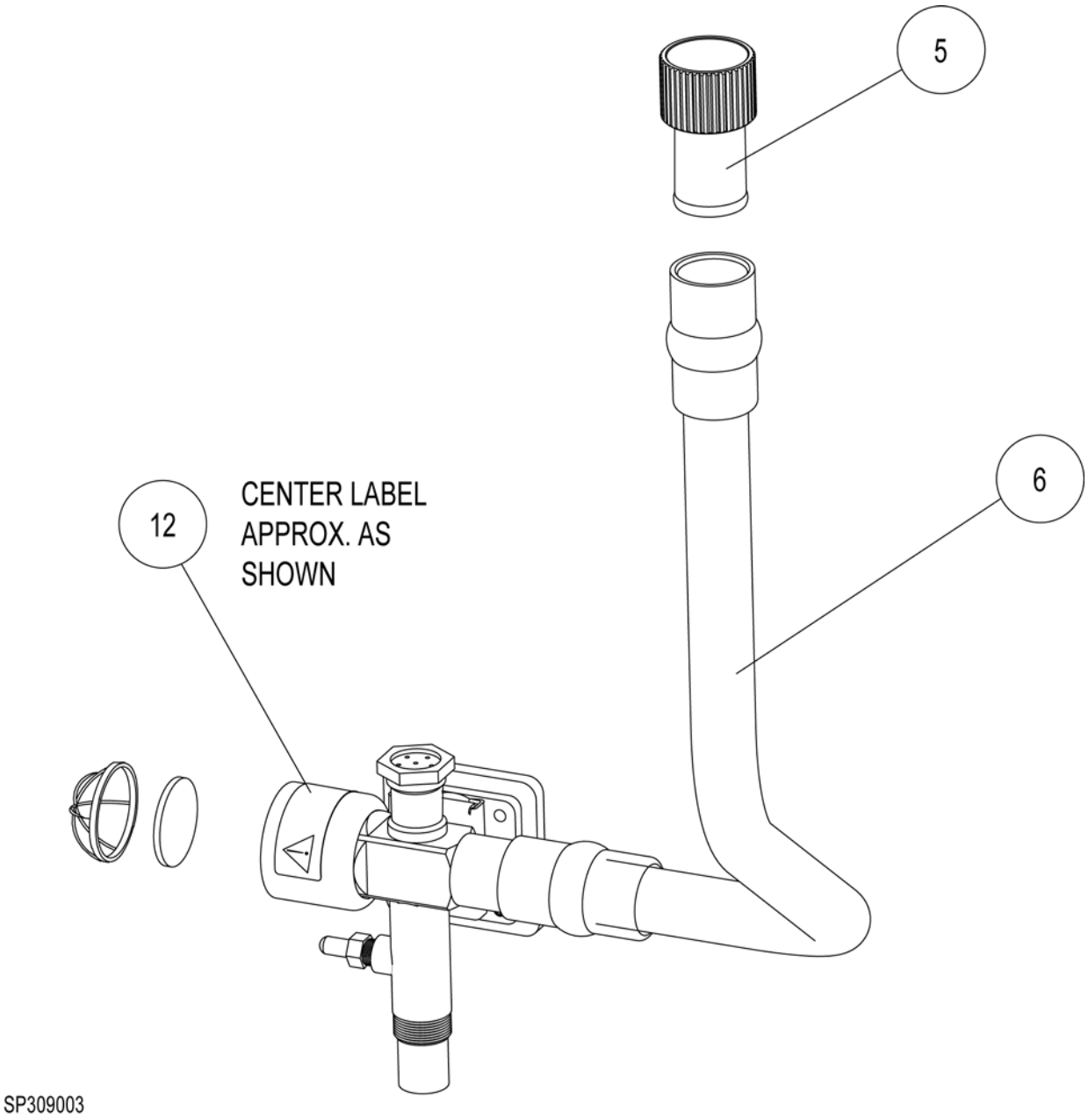

Fig. 4 Passive Scavenger Adapter, Transfer Hose, and Label Installation

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5. Slide the opposite end of the transfer hose (6) onto the 27 mm inlet of the scavenger manifold (7) so that the connector hose barb is seated in the retention groove of the transfer hose. Refer to Fig. 1 and Fig. 2**.**
6. Attach the 30 mm female conical connector (5) to the 30 mm female connector (8) on the COSY breathing system
7. The exhaust port as provided can accommodate 19mm. For facilities where 30 mm conical connections are used, skip to step 8.
   a) With the sites' Medical Maintenance input, locate the facilities' exhaust ventilation grill where the scavenger hose will terminate.
   b) If applicable, mount the 19mm vent grill adapter (14) to the facilities ventilation grill by squeezing the toggle nuts closed and inserting them through the grill. Refer to Fig. 5.

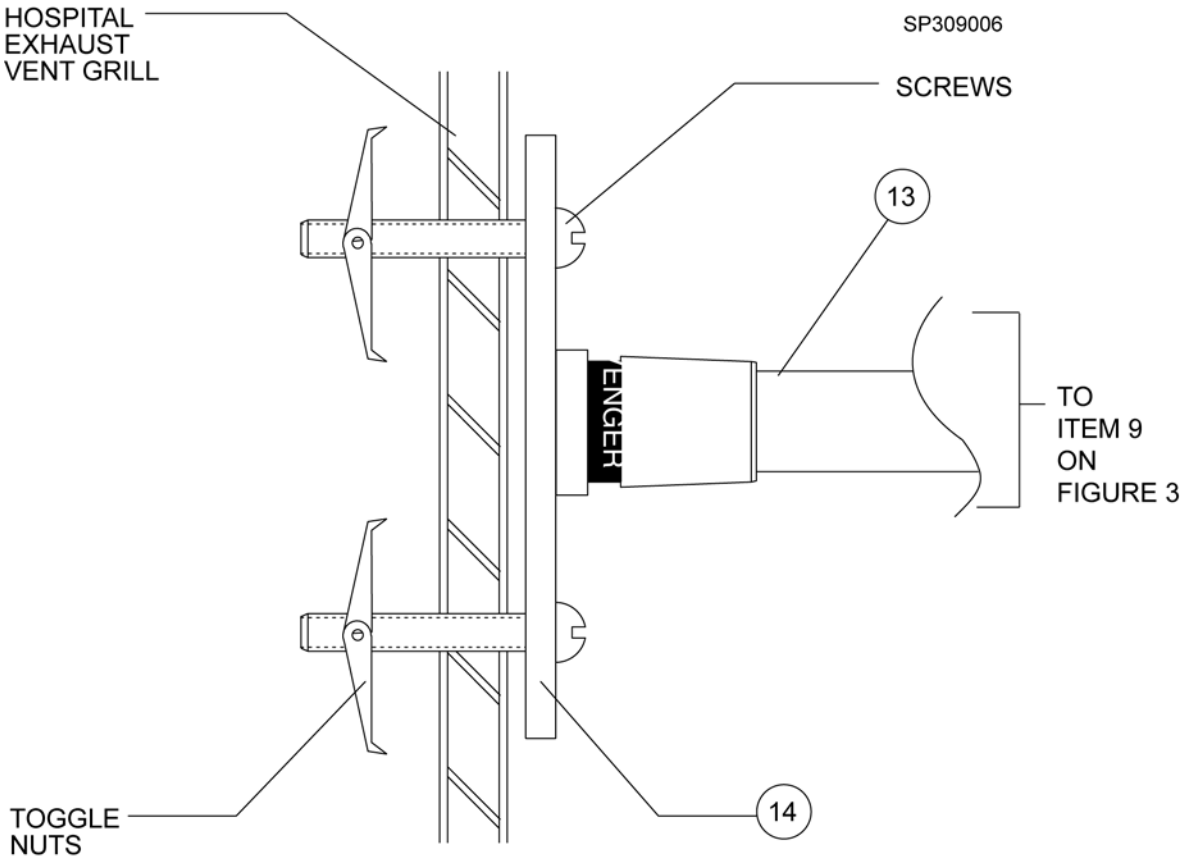

Fig. 5 19mm Vent Grill Adapter Installation

   c) Pull forward on the adapter and tighten screws until the adapter is held securely in place.
   d) Attach one end of the provided 19mm corrugated hose (13) to the terminal labeled "SCAVENGER" on the vent grill adapter. Attach the other end of this hose to the passive scavenger exhaust port (9) mounted on the machine.

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8. For facilities where 30 mm conical connections are used, install the spin-on adapter (10).
9. Locate the gas sampling port (11) on the passive scavenger manifold. It accommodates a sampling line with an inside diameter of typically .170 inches (or approx. 11/64). Refer to Fig. 2 for location of gas sampling port.
10. If applicable, remove the vinyl cap (12) and push the sample line coming from the exhaust port of the gas analyzer onto the hose barb. Refer to Fig. 2 for location of vinyl cap.
11. Install Label (13) contained in kit in the approximate location and exact orientation as shown in Fig. 4.
12. For facilities where 30 mm conical connectors are used, consult with the sites' Medical Maintenance representative regarding the provisions necessary to complete the connection from the 30mm spin-on adapter (10) to the sites' 30mm exhaust system.

4 PERFORMANCE TESTS

1. Check for moisture accumulation in the breathing and scavenger hoses. Remove and moisture found.
2. Short-circuit the COSY breathing system inspiratory and expiratory valves with a 22 mm breathing hose.
3. Install a breathing bag on the COSY breathing system.
4. Set the COSY breathing system APL valve to SPONT.
5. Open the oxygen flow control valve to a flow of 10 L/min and occlude the passive scavenger exhaust port connection.
6. After the breathing bag inflates, the absorber systems' breathing pressure gauge must indicate a pressure of less than 5 cm H2O.
7. Systems which are not equipped with a pressure gauge, observe the generated pressure waveform, set the threshold to 5 cm H2O. The pressure waveform shall not rise and remain above the dotted threshold trace during this performance test.

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